

PATENT ABSTRACTS OF JAPAN

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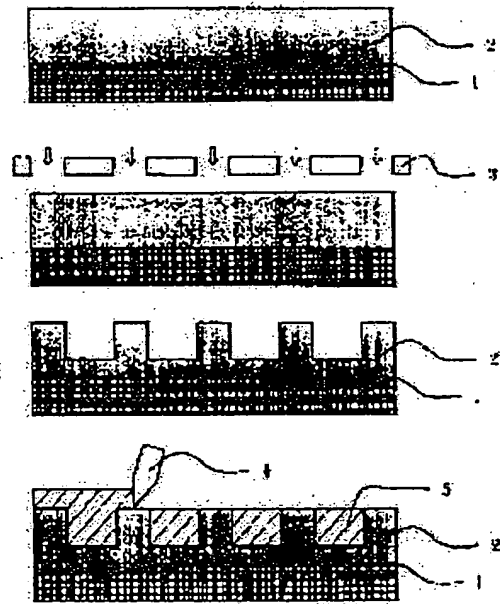
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(54) REFLECTIVE COLOR FILTER AND ITS MANUFACTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To improve display performance by providing a light absorbing layer on a substrate, a recess ranging from the surface of the light absorbing layer to the inside and a wavelength and polarization selectively reflecting layer in the recess.
SOLUTION: A light absorbing layer 2 is formed on a substrate 1. A preset photomask 3 is used for ultraviolet exposure and preset developer is used for development. Then, the light absorbing layer 2 is formed into a light absorbing layer 2' with a recess in a preset shape (a rib shape). A preset amount of ultraviolet hardening cholesteric liquid crystal or chiral nematic liquid crystal is dropped on the light absorbing layer 2' and embedded in the recess, while the substrate 1 with the light absorbing layer 2' thereon is heated, to form a selectively reflecting layer 5. As the selectively reflecting layer 5 is encircled by ribs formed of the same material as the light absorbing layer 2, ultraviolet beam scattered by the exposure part is absorbed by the ribs, the scattering of the ultraviolet beam outside a pattern is prevented and so no cover occurs.



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